Windows 10 2016 LTSB (V14.1.0) HPt630 DP1.0

Technical Release Doc Win10 HPt630 DP1.0

Date: 10th Feb, 2021

Prepared By: Capgemini Inc.

Revision 2.0

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Win10 Release Version 14.1.0 for HPt630

General Information

Requestor	Scott Johnson
Affected Systems	Registers
Business Contacts	Scott Johnson
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Overview

The purpose of this document is to provide information and technical specification of McDonald's Corporation Windows 10 for HPt630 Version 14.1.0

This next generation McDonald’s OS platform is build up on Microsoft windows 10 IoT 2016 LTSB (Long Term Servicing Branch) OS. Microsoft never publishes feature updates through Windows Update on devices that run Windows 10 Enterprise LTSB.

Instead, it differs new LTSB releases every 2–3 years, and organizations can choose to install them as in-place upgrades or even skip releases over a 10-year life cycle. LTSB model primarily for specialized devices such as McDonald’s POS, KVS and KIOSK etc.

Hardware Specifications

Following are the hardware configuration:

System type: 64-bit Operating System
Processor: AMD Embedded G-Series GX-420Gl Radeon R7E @ 2.00GHz
RAM: 8.00 GB

Image Specifications

This version of HPt630 build is created by using Windows 10 gold Build version 14.1.0. The key Software specifications of this load are as follows:

Features\utility\Tools\Polices	**Version/Status**
Tools\Utilities	
.Net Framework Setup	. NET Framework 4.7.2 for NP .NET Framework 3.5.1 for Legacy App. Support
Power Shell version	5.1

Silverlight	5.1
Display utility	1
Xptools	N/A
Trace32 install	N/A
Ultra VNC	1.3.2
GUM	3.7.0.2
Provisioning tool	2.0
Services	
Print Spooler	Automatic
Smart Card	Disabled
Interactive Services Detection Service	Disabled
Smart card Removal Policy	Disabled
Telephony	Disabled
Themes	Disabled
WebClient	Disabled
Windows Firewall Service	Automatic
WLAN Auto Config	Automatic
Windows Time	Automatic
Windows Update	Manual
Phone Services	Disabled
GUM service	Disabled
Sensor Monitoring services	Automatic
Xbox Live Networking Services	Disabled
Xbox Live Game	Disabled
Xbox Live Auth Manager	Disabled
User Profiles and configuration	
Administrator	Administrators group user
PT	Administrators group user
NewPos	Users group user
Miscellaneous	
Paging file size	System Managed
Autologon	PT/Newpos
Default windows Shell	Windows
Power options\Scheme	McDonald's Customize Power Scheme
Sysprep method	Generalize and OOBE mode
Drives / Volume	C Drive – OSDisk D Drive - OSDisk E Drive - OSDisk

Windows Patch Details

This release is patched up to Jan 2021 updates released from Microsoft. For more information please refer below screenshot.

OS Version Details

The version number of the image was updated in the registry to version:

Major Version: 14
Minor Version: 1
Hot fix Version: 0
Device specific build:
Major Version: 1
Minor Version: 0
Device Type: 15
Hardware ID: 80

This is confirmed at each boot of the image.

Driver Details

wopAD2A.tmpMicrosoft_Excel_Worksheet1.xlsx

Test Plan

wopAC8F.tmpMicros[redacted]ord_Document2.docx
wopAD8A.tmpMicrosoft_Excel_Worksheet3.xlsx

Software Installed to Base Image Details

Application	Type	Publisher	Version	Size	License Type	Comments
Ultra VNC	Support	uvnc bvba	1.3.2	24.8MB	Freeware	Used for remote login
GUM	Service	McDonald's	3.0.7.2	312KB	Internal	Installing GUM packages
McDonald's Provisioning Tool	Support	McDonald's Corporation	2.0	19.7MB	Internal	Used for store specific device configuration

Image Deployment

Windows 10 compatible deployment tools can be found at below location.

ITRSFTP1 @//Global Utilities /iPXE
ITRSFTP1 @//Global Utilities/MakeUSB

Important Notes

- To maintain the legacy application, script support we've enabled user impersonation for NewPOS user. Most likely after security team review it would be disabled in upcoming release so please upgrade your applications and script accordingly.
- As per new design in windows 10 the GUM service is disabled by default. After provisioning it would be enabled upon NewPOS user logon and all GUM packages would be processed. So please make sure any GUM packages created during provisioning configuration are implemented in Provisioning tool scripts instead.
- Event log related to DCOM (Event ID: 10016, 10010), Kernel-Boot (Event ID 124), Service Control Manager (Event ID: 7000, 7023) however it doesn't hamper device performance.
- A known issue, which is sometimes seen when a secondary monitor in a dual extended monitor scenario is replaced by another, the OS may cause the screens to swap after a reboot. Similar behaviour may also be seen when a primary screen is replaced. In both these cases the monitors may need to be physically swapped across the display ports to set them up correctly as needed. Also in these cases, there could also be a problem with the OS not setting the resolution correctly on any of these monitors, it is recommended that provisioning be done again to fix the problem.

Revision History

Rev #	Rev Date	Description	Editor
1.0	N/A	Initial Draft	Dhananjay Bhilare
1.1	27th July 2017	Following changes have been made: • Credential Guard • Device Guard • Enterprise Mode Internet Explorer • Remote desktop • Side-loading of line of business apps	Dhananjay Bhilare

		• PT 1.4.3 installed • PAR’s comments • Release candidate increased to RC2.	
1.2	16th Oct 2017	Following changes have been made: • Installed stable version of PT 1.4.8 • Started Interactive Services Detection Service and set it to automatic mode • Installed .Net 3.5 Framework • Created replica for Custom Software Registry under HKLM Software Registry keys to WOW6432Node (ex. XpeStaging registry value set) • Ran windows update and build is updated with patches up to 13 OCT 2017 • Enable Firewall service and turn it off from control panel • Release candidate increased to RC2.	Dhananjay Bhilare
1.3	12 OCT 2018	Following changes have been made: • Release candidate increased to RC5. • Installed GUM Version 3.0.7 • Added GumMonitoring.exe to c:\GUM folder • GUM reg entries replicated	Dhananjay Bhilare

		under WOW64 • GUM service disabled in image assuming PT will enable it after provisioning. • As per US IT request changed wallpaper with MCD logo • Installed PT version 1.4.30.0 • From group policy enabled user impersonation for NewPOS user • Removed the PT from startup and added it for all user Run registry • Updated Ultra VNC to latest version 1.2.22 • Disabled UAC from GPO • Removed Recycle Bin and PT icons from NewPOS user desktop • OS patched with Windows security update up to July 2018 security updates. • Setup windows startup app functionality in windows 10 • NewPOS user locked down using user GPO and other configuration in OS • Power Schema set to max performance • Image developed using MDT • Accepted EULA for PSTool in Administrator and NewPOS • Added C:\XPeStaging Folder • Enabled windows update	

		service and set it to manual startup • Time Service Set to Automatic • Turned off firewall for domain profile • As per US IT request enabled .Net 3.5 sub feature for windows foundation communication for HTTP and non HTTP activation	
1.4	10 DEC 2018	• Updated release candidate version to RC5 • Installed PT version 1.4.31 • Added new admin user PT and locked it down as well as set it up as auto logon in image	Dhananjay Bhilare
1.5	22 FEB 2019	• Updated release candidate version to RC7 • Installed PT version 1.4.32 • WSR-7: Supressed windows defender notification via registry. • WSR HYPERLINK "https://us-jira.mcd.com/browse/WSR-118"-118: Access provided to the NewPOS user to change the system date and time using group policy. • WSR-119: Added the Admin shortcut for the NewPos user and Reprovisioning shortcut for the administrator user. • WSR-126: MS Key updated in the unattend.xml • WSR-127: Removed the	Ranju Devi

		Xpestaging folder • WSR-128: Changed the registry Key for Time Sync from "NoSync" to NT5DS	
1.6	5th July 2019	Following changes have been made: • Updated release candidate version to RC8 • Installed PT version 1.4.33 • WSR-153: Enable Print Spooler service in Gold build to meet future requirement • WSR-175: Users have full control of E: drive • WSR-178: System information missing Manufacturer, Model and "M" logo • WSR-179: Wallpaper: COE missing and Image version is generic 14.X.X • WSR-180: 150 Ports not locked for IPXe: 5001 – 5150 • WSR- HYPERLINK "https://us-jira.mcd.com/browse/WSR-183"183: IPv6 Disabled for continuity from PR7 to Win10 • WSR-184: Windows is Automatically Updating Drivers. • WSR-187: PCAP Screen Notice • WSR-190: GUM packages not running on the device	Ranju Devi

		• Enabled “Touch Keyboard and Handwriting Panel Service” like PR7 for TabletPCSetting feature under Control Panel.	
1.7	17th July 2019	Following changes have been made: • Device specific driver loaded on RC8 gold build. • WSR-168: Comport duplication removal • Updated Model details under System information	Ranju Devi
1.8	9 August 2019	Following changes have been made: • Removed the RC banner.	Shakti Singh
1.9	27 Jan 2020	Following changes have been made: • Device Type changed to 15	Shubham Saraswat
2.0	10 Feb 2021	Image is created with 14.1 Gold Build	Shakti Singh
2.1	20th Apr 2021	Following changes have been made: Fixed Beta 3 Jira issues	Shakti Singh